



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 24, 2017

Carl Watson Ph.D.
Sr. Regulatory Toxicologist
Buckman Laboratories, Inc.
1256 N. McLean Blvd
Memphis, TN 38108

Subject: Label Amendment – Updating the Uses and Precautionary Language
Product Name: Busan 40
EPA Registration Number: 1448-52
Application Date: 02/28/2017
Decision Number: 526853

Dear Dr. Watson:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, you may contact Aline Heffernan at 703-347-8602 or via email at heffernan.aline@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "John Hebert" with a stylized flourish at the end.

John Hebert, Chief
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure: Stamped Label

BUSAN 40

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ACTIVE INGREDIENT	
Potassium N-methyldithiocarbamate.....	32.5%
INERT INGREDIENTS	67.5%
TOTAL	100.0%

ACCEPTED
Apr 24, 2017
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1448-52

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID	
If in Eyes	<ul style="list-style-type: none"> - Hold eye open and rinse slowly and gently with water for 15-20 minutes. - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. - Call a poison control center or doctor for further treatment advice.
If on Skin, Clothes	<ul style="list-style-type: none"> - Take off contaminated clothing. - Rinse skin immediately with plenty of water for 15-20 minutes. - Call a poison control center or doctor for treatment advice.
If Swallowed	<ul style="list-style-type: none"> - Call poison control center or doctor immediately for treatment advice. - Have person sip a glass of water, if able to swallow. - Do not induce vomiting unless told to do so by the poison control center or doctor. - Do not give anything by mouth to an unconscious person.
If Inhaled	<ul style="list-style-type: none"> - Move person to fresh air. - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth- to-mouth if possible. - Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact 901-767-2722 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed. This product is highly alkaline and may pose a serious risk of eye damage.	

Precautionary Statements
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CORROSIVE. Causes skin burns. Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Harmful if absorbed through skin or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles or face shield, rubber gloves and protective clothing.

USER SAFETY RECOMMENDATIONS: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separate from other laundry. discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to mammals, birds, aquatic invertebrates and fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewage systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL HAZARDS: This pesticide is incompatible with oxidizers and strong acids.

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Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not stack more than five drums high. Drums should be opened in well-ventilated areas. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your EPA Regional Office for guidance.

CONTAINER DISPOSAL:

(Text for all nonrefillable containers)

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying.

{Liquid residue removal statement for nonrefillable containers with capacity of 5 gals or less}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for the later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

{Liquid residue removal statement for nonrefillable containers with capacity of >5 gals}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water.

Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use of disposal. Repeat this procedure two more times.

(Text for all nonrefillable containers)

Then offer for recycling if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

{Text for refillable containers}

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

For containers larger than 55 gallons:

To clean the container prior to refilling or disposal, use a pressure wash as follows: Empty the remaining contents into application equipment or a mix tank. Use a pressure wash system that rinses all interior sides with water and that is rated at >40 psi and >120F. Pressure wash the container for a length of time that ensures that a minimum 25% of the container volume of water is used. During the pressure wash, ensure that the container valve is left open for continuous draining. Collect the rinsate and empty into application equipment or a mix tank or store rinsate for later use or disposal. Allow container to drain for 10 minutes after pressure wash is completed.

For containers 55 gallons and smaller:

To clean the container prior to refilling or disposal, use a triple rinse wash as follows: Empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously. Pour or pump rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this rinsing procedure two more times.

Do not discharge rinsate containing this product unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge rinsate containing this product to sewer systems without prior approval from the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Batch code: _____

Manufactured by **Buckman Laboratories, Inc.**
1256 North McLean Blvd., Memphis, Tennessee 38108, USA
(901) 278-0330 or 1-800-282-5626

EPA Est. No. 1448-TN-1

EPA Reg. No. 1448-52

Product Weight 10.4 lbs/gal 1.25 kg/l

Net contents are marked on the container.

HMIS/NPCA Ratings

Health **3** Flammability **1** Reactivity **1**

Last Revision

4/21/2017

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Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

BUSAN 40 can be dispersed directly from the shipping container by means of a chemical metering pump or suitable measuring containers. It should be mixed thoroughly with the material to be protected in a manner that will ensure uniform distribution of the microbicide. If necessary for uniform distribution, it can be diluted with water to any desired lower concentration. Dilute solutions of BUSAN 40, however, should be used on the same day they are prepared. BUSAN 40 is used in pulp and paper mills (1) to control bacterial and fungal slime; (2) to inhibit the growth of bacteria that cause the degradation of papermaking chemicals such as animal glue solutions, and starch and clay slurries.

SLIME CONTROL IN PULP AND PAPER MILLS: For controlling bacterial and fungal slime in pulp and paper mill systems, BUSAN 40 is employed at 125 to 500 g per metric ton (0.25 to 1 lb. per short ton) of pulp or paper produced. Addition may be made continuously or intermittently to the stock or white water as needed to control the growth of microorganisms. As a general rule, intermittent treatment at the specified rates for periods of 2 to 6 hours out of each 8, each 12, or each 24 hours, is recommended. The concentrations of BUSAN 40 and the frequency of treatment should be adjusted higher or lower according to the rate of slime accretion.

FURNISH: For treatment of microbiologically contaminated furnish, BUSAN 40 is added to the system at a rate of 0.1 kg of BUSAN 40 per metric ton (0.2 lb. per short ton) of furnish to each beater or pulper.

BROKE AND SLUSH PULP TREATMENT: For uncoated broke, add 0.1 to 0.2 kg of BUSAN 40 per metric ton (0.2 to 0.4 lb. per short ton), and for coated broke add 0.3 kg of BUSAN 40 per metric ton (0.2 to 0.6 lb. per short ton).

PULP STORAGE: Pulp that may be held in storage for 8 hours to 1 week should be treated with 0.1 to 0.3 kg of BUSAN 40 per metric ton (0.2 to 1.0 lb. per short ton) of moisture-free pulp. The BUSAN 40 should be added in a manner that will ensure uniform distribution throughout the mass of pulp moving to storage.

FRESH NON-POTABLE WATER: For microbiologically contaminated fresh non-potable water BUSAN 40 may be used at concentrations of 1 to 4 parts per million for treatment periods of 4 hours out of each 8 hours in the place of chlorine or other oxidants. BUSAN 40 must not be added to water used for drinking or bathing.

PRESERVATION OF PAPERMAKING CHEMICALS: BUSAN 40 can be used to inhibit the growth of bacteria that cause the microbiological degradation of papermaking chemicals. The required amount of BUSAN 40 should be added in such a manner as to ensure uniform distribution throughout the substrate to be protected. The table below shows the amounts of BUSAN 40 recommended for the preservation of various substrates; the pH shown is the maximum pH reached during processing and storage of the material. The concentrations are based on the total wet weight of slurry, emulsion, or solution to be protected as parts per million BUSAN 40 per million parts of substrate (weight/weight).

Recommended Concentration of BUSAN 40 for Preservation of Papermaking Chemicals

<u>Substrate</u>	<u>pH below 7</u> (PPM)	<u>pH above 7</u> (PPM)
Animal glue solutions	75-150	150
Clay slurries, phosphate-dispersed	50-100	100
Starch slurries and solutions	50-150	150

Technical assistance in applying BUSAN 40 for microorganism control as described above is available upon request when a description of the problem is provided.